

# Package ‘tmuxr’

May 22, 2020

**Title** Manage 'tmux' Sessions, Windows, and Panes

**Version** 0.2.4

**Description** Create, control, and capture 'tmux' sessions, windows, and panes using a pipeable API.

**Depends** R (>= 3.3.0)

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**URL** <https://datascienceworkshops.github.io/tmuxr>,  
<https://github.com/datascienceworkshops/tmuxr>

**BugReports** <https://github.com/datascienceworkshops/tmuxr/issues>

**SystemRequirements** tmux

**OS\_type** unix

**Imports** processx

**Suggests** covr, fs, testthat

**Collate** tmuxr-package.R server.R session.R pane.R window.R send.R  
select.R utils.R layout.R inspect.R

**RoxygenNote** 7.1.0

**NeedsCompilation** no

**Author** Jeroen Janssens [aut, cre] (<<https://orcid.org/0000-0002-5878-8924>>),  
Data Science Workshops [cph, fnd]

**Maintainer** Jeroen Janssens <[jeroen@datascienceworkshops.com](mailto:jeroen@datascienceworkshops.com)>

**Repository** CRAN

**Date/Publication** 2020-05-22 11:40:02 UTC

**R topics documented:**

attach_pane . . . . .	3
attach_session . . . . .	3
attach_window . . . . .	4
capture_pane . . . . .	4
clock_mode . . . . .	5
display_message . . . . .	6
id . . . . .	7
index . . . . .	7
is_active . . . . .	8
is_installed . . . . .	8
is_running . . . . .	9
kill_pane . . . . .	9
kill_server . . . . .	9
kill_session . . . . .	10
kill_window . . . . .	10
layout . . . . .	11
list_panes . . . . .	12
list_sessions . . . . .	12
list_windows . . . . .	13
new_pane . . . . .	13
new_session . . . . .	14
new_window . . . . .	15
object_name . . . . .	16
object_size . . . . .	17
pipe_pane . . . . .	18
prop . . . . .	18
rename_session . . . . .	19
rename_window . . . . .	19
resize_pane . . . . .	20
resize_window . . . . .	20
select_pane . . . . .	21
select_window . . . . .	22
send_keys . . . . .	23
send_prefix . . . . .	24
set_option . . . . .	24
start_server . . . . .	25
style . . . . .	25
style_convert . . . . .	26
swap_pane . . . . .	26
tmux_command . . . . .	27
tmux_version . . . . .	28

---

attach_pane	<i>Attach to an existing tmux pane</i>
-------------	--

---

**Description**

Attach to an existing tmux pane

**Usage**

```
attach_pane(x, lookup_id = TRUE)
```

**Arguments**

x	An integer or string indicating the name of an existing pane.
lookup_id	A logical. If FALSE, x is assumed to be a pane id. Default: TRUE.

**Value**

A tmuxr\_pane.

---

attach_session	<i>Attach to an existing tmux session</i>
----------------	---

---

**Description**

Attach to an existing tmux session

**Usage**

```
attach_session(x, lookup_id = TRUE)
```

**Arguments**

x	An integer or string indicating the name of an existing window.
lookup_id	A logical. If FALSE, x is assumed to be a session id. Default: TRUE.

**Value**

A tmuxr\_session.

attach\_window            *Attach to an existing tmux window*

---

### Description

Attach to an existing tmux window

### Usage

```
attach_window(x, lookup_id = TRUE)
```

### Arguments

x                        An integer or string indicating the name of an existing window.  
lookup\_id                A logical. If FALSE, x is assumed to be a window id. Default: TRUE.

### Value

A tmuxr\_window.

---

capture\_pane            *Capture the contents of a tmux pane*

---

### Description

Capture the contents of a tmux pane

### Usage

```
capture_pane(  
  target = NULL,  
  start = NULL,  
  end = NULL,  
  escape = FALSE,  
  escape_control = FALSE,  
  join = FALSE,  
  cat = FALSE  
)
```

**Arguments**

target	A tmuxr_session, tmuxr_window, or tmuxr_pane. If NULL, the currently active pane is used. Default: NULL.
start, end	An integer or a dash (-). First and last lines to capture. 0 is the first line of the visible pane and negative integers are lines in the history. A dash (-) for start is the start of the history and to end the end of the visible pane. The default is to capture only the visible contents of the pane.
escape	A logical. If TRUE, include escape sequences for text and background attributes. Default: FALSE.
escape_control	A logical. If TRUE, also escape control characters as octal \xxx. Default: FALSE.
join	A logical. If TRUE, join wrapped lines and preserve trailing spaces at each line. Default: FALSE.
cat	A logical. If TRUE, concatenate lines into one string. Default: FALSE.

**Value**

A vector of strings or one string when cat is TRUE.

**See Also**

[send\\_keys\(\)](#)

---

clock_mode	<i>Display a large clock</i>
------------	------------------------------

---

**Description**

Display a large clock

**Usage**

```
clock_mode(target = NULL)
```

**Arguments**

target	A tmuxr_session, tmuxr_window, or tmuxr_pane. If NULL, the currently active pane is used. Default: NULL.
--------	--

---

display_message	<i>Display a message</i>
-----------------	--------------------------

---

### Description

Display a message.

### Usage

```
display_message(target = NULL, message = NULL, verbose = FALSE, stdout = TRUE)
```

### Arguments

target	A session, window, or pane.
message	A string. The message to display. Refer to the FORMATS section of the tmux man page for the format.
verbose	A logical. Print verbose logging as the format is parsed? Default: FALSE.
stdout	A logical. If TRUE, the message is printed to standard output. If FALSE, the message is sent to target. Default: TRUE.

### Value

A string if stdout is TRUE, otherwise NULL.

### Note

The verbose argument is not supported for tmux version < 2.9 and will be ignored. If verbose is TRUE a warning will be given.

### Examples

```
## Not run:
s <- new_session("jazz", height = 12)
display_message(s, "#{window_active}")
display_message(s, "session '#{session_name}' has height #{window_height}.")
kill_session(s)

## End(Not run)
```

---

id	<i>Identifier of a tmux object</i>
----	------------------------------------

---

**Description**

Identifier of a tmux object

**Usage**

id(target)

**Arguments**

target            A tmuxr\_session, tmuxr\_window, or tmuxr\_pane.

**Value**

A string.

---

index	<i>Index of a tmux object</i>
-------	-------------------------------

---

**Description**

Index of a tmux object

**Usage**

index(target)

**Arguments**

target            A tmuxr\_window or tmuxr\_pane.

**Value**

An integer.

---

<code>is_active</code>	<i>Is tmux object active?</i>
------------------------	-------------------------------

---

**Description**

Is tmux object active?

**Usage**

```
is_active(target)
```

**Arguments**

`target`            A `tmuxr_window` or `tmuxr_pane`.

**Value**

A logical.

---

<code>is_installed</code>	<i>Is tmux installed correctly?</i>
---------------------------	-------------------------------------

---

**Description**

Check whether tmux is installed correctly

**Usage**

```
is_installed()
```

**Value**

A logical.

---

is_running	<i>Is the tmux server running?</i>
------------	------------------------------------

---

**Description**

Check whether the tmux server is running.

**Usage**

```
is_running()
```

**Value**

A logical.

---

kill_pane	<i>Kill a tmux pane</i>
-----------	-------------------------

---

**Description**

Destroy the given pane. If no panes remain in the containing window, it is also destroyed.

**Usage**

```
kill_pane(target = NULL, inverse = FALSE)
```

**Arguments**

target	A tmuxr_pane. If NULL, the currently active pane is used. Default: NULL.
inverse	A logical. If TRUE, kills all but the target pane. Default: FALSE.

---

kill_server	<i>Kill the tmux server</i>
-------------	-----------------------------

---

**Description**

Kill the tmux server

**Usage**

```
kill_server(silent = TRUE)
```

**Arguments**

silent	A logical. Should a possible error be suppressed? Default: TRUE.
--------	--

---

kill_session	<i>Kill a tmux session</i>
--------------	----------------------------

---

**Description**

Kill a tmux session

**Usage**

```
kill_session(target, inverse = FALSE)
```

**Arguments**

target	A tmuxr_session.
inverse	A logical. If TRUE, kills all but the target session. Default: FALSE.

---

kill_window	<i>Kill a tmux window</i>
-------------	---------------------------

---

**Description**

Kill a tmux window

**Usage**

```
kill_window(target, inverse = FALSE)
```

**Arguments**

target	A tmuxr_window.
inverse	A logical. If TRUE, kills all but the target window. Default: FALSE.

---

layout	<i>Change layout of a tmux window</i>
--------	---------------------------------------

---

**Description**

Functions to get and set the layout of a tmux window.

**Usage**

```
layout(target = NULL)

layout(target) <- value

set_layout(target = NULL, value)

layout_even_horizontal(target = NULL)

layout_even_vertical(target = NULL)

layout_main_horizontal(target = NULL, height = NULL)

layout_main_vertical(target = NULL, width = NULL)

layout_tiled(target = NULL)

layout_next(target = NULL)

layout_previous(target = NULL)

layout_even(target = NULL)

layout_undo(target = NULL)

layout_rotate(target = NULL, reverse = FALSE)
```

**Arguments**

target	A tmuxr_window. If NULL, use currently active window.
value	A string. Layout definition or name of preset.
width, height	An integer. Width or height of the main pane.
reverse	A logical. If TRUE the direction in which rotate the window is reversed. Default: FALSE.

**Value**

A string. Layout definition.

---

list_panes	<i>List tmux panes</i>
------------	------------------------

---

**Description**

List tmux panes

**Usage**

```
list_panes(target = NULL)
```

**Arguments**

target	A tmuxr_session or tmuxr_window. The parent session or window. If NULL all panes of all sessions are listed. Default: NULL.
--------	---

**Value**

A list of tmuxr\_panes.

---

list_sessions	<i>List tmux sessions</i>
---------------	---------------------------

---

**Description**

List tmux sessions

**Usage**

```
list_sessions()
```

**Value**

A list of tmuxr\_sessions.

---

list_windows	<i>List tmux windows</i>
--------------	--------------------------

---

**Description**

List tmux windows

**Usage**

```
list_windows(target = NULL)
```

**Arguments**

target	Name of parent tmuxr_session. If NULL (default), all windows of all sessions are listed.
--------	--

**Value**

A list of tmuxr\_windows.

---

new_pane	<i>Create a new tmux pane</i>
----------	-------------------------------

---

**Description**

Create a new pane by splitting target.

**Usage**

```
new_pane(
  target = NULL,
  vertical = TRUE,
  size = NULL,
  before = FALSE,
  full = FALSE,
  start_directory = NULL,
  shell_command = NULL
)
```

```
split_window(
  target = NULL,
  vertical = TRUE,
  size = NULL,
  before = FALSE,
  full = FALSE,
  start_directory = NULL,
  shell_command = NULL
)
```

**Arguments**

target	A tmux_session, tmuxr_window, or tmuxr_pane.
vertical	A logical. If TRUE split target vertically, otherwise horizontally. Default: TRUE.
size	A numeric. The size of the new pane in lines (for vertical splits) or characters (for horizontal splits). If less than 0, size is interpreted as a percentage. Default: NULL.
before	A logical. If TRUE, create the new pane to the left of or above the active pane. Default: FALSE.
full	A logical. If TRUE, create a new pane spanning the full window width (for vertical splits) or full window height (for horizontal splits), instead of splitting the active pane. Default: FALSE.
start_directory	A string. Working directory this pane is run in.
shell_command	A string. Shell command to be invoked when creating the pane. If NULL, the default shell is used.

**Value**

A tmuxr\_pane.

---

new_session	<i>Create a new tmux session</i>
-------------	----------------------------------

---

**Description**

Create a new tmux session with name name.

**Usage**

```
new_session(
  name = NULL,
  window_name = NULL,
  start_directory = NULL,
  width = 80,
  height = 24,
  detached = TRUE,
  shell_command = NULL
)
```

**Arguments**

name	A string. Name of the session. If NULL, the name determined by tmux, which is the next unused integer (by default starting at 0). Default: NULL.
window_name	A string. Name of initial window.

`start_directory` A string. Working directory this session is run in.

`width` An integer. Width of initial window. Default: 80.

`height` An integer. Height of initial window. Default: 24.

`detached` A logical. If FALSE, the R interpreter waits for the session to be killed. Default: TRUE.

`shell_command` A string. Shell command to be invoked when creating the session.

**Value**

A `tmuxr_session`.

**Note**

Prior to `tmux` version 2.6, the actual height is one line less than `height`.

**Examples**

```
## Not run:
s <- new_session("foo", shell_command = "bash", height = 10)
list_sessions()
kill_session(s)

## End(Not run)
```

---

<code>new_window</code>	<i>Create a new tmux window</i>
-------------------------	---------------------------------

---

**Description**

Create a new `tmux` window with name `name`. When the shell command completes, the window closes.

**Usage**

```
new_window(
  target = NULL,
  name = NULL,
  focus = TRUE,
  start_directory = NULL,
  shell_command = NULL
)
```

**Arguments**

target	A tmuxr_session or tmuxr_window. If NULL, the last session is used.
name	A string. Name of the window. If NULL, the name determined by the shell command. Default: NULL.
focus	A logical. If FALSE, the session does not make the new window the current window. Default: TRUE.
start_directory	A string. Working directory this window is run in.
shell_command	A string. Shell command to be invoked when creating the window. If NULL, the default shell is used.

**Value**

A tmuxr\_window.

**Examples**

```
## Not run:
s <- new_session()
new_window()
kill_session(s)

## End(Not run)
```

---

object_name	<i>Name of a tmux object</i>
-------------	------------------------------

---

**Description**

Functions to get and set the name of a tmux session, window, and pane.

**Usage**

```
name(target)

name(target) <- value

set_name(target, value)
```

**Arguments**

target	A tmuxr_session, tmuxr_window, or tmuxr_pane.
value	A string. New name.

**Value**

A string.

**See Also**

[rename\\_session\(\)](#), [rename\\_window\(\)](#)

---

object_size	<i>Width and height of a tmux object</i>
-------------	--

---

**Description**

Functions to get and set the width and height of a tmux session, window, and pane.

**Usage**

```
width(target)
```

```
width(target) <- value
```

```
set_width(target, value)
```

```
height(target)
```

```
height(target) <- value
```

```
set_height(target, value)
```

**Arguments**

target           A tmuxr\_session, tmuxr\_window, or tmuxr\_pane.

value            An integer.

**Value**

An integer. The new width or height.

**Note**

The size of a tmuxr\_pane can only be changed if there are other panes in the same window.

**See Also**

[resize\\_window\(\)](#), [resize\\_pane\(\)](#)

---

pipe_pane	<i>Pipe contents of a tmux pane to a shell command</i>
-----------	--

---

### Description

Pipe contents of a tmux pane to a shell command

### Usage

```
pipe_pane(
    target = NULL,
    shell_command = NULL,
    stdout = TRUE,
    stdin = FALSE,
    open = FALSE
)
```

### Arguments

target	A tmuxr_session, tmuxr_window, or tmuxr_pane.
shell_command	String. If NULL, the current pipe (if any) is closed. Default: NULL.
stdout	Logical. Connect standard output of pane to shell_command? Default: TRUE.
stdin	Logical. Connect standard input of pane to shell_command? Default: FALSE.
open	Logical. Only open a new pipe if no previous pipe exists. Default: FALSE.

---

prop	<i>Properties of a tmux object</i>
------	------------------------------------

---

### Description

Get the properties of a tmux object, including sessions, windows, and panes.

### Usage

```
prop(target = NULL, property)
```

### Arguments

target	A tmuxr_session, tmuxr_window, or tmuxr_session. Default: NULL.
property	A string.

### Value

A string.

**Examples**

```
## Not run:  
s <- new_session()  
prop(s, "session_created")  
kill_session(s)  
  
## End(Not run)
```

---

rename_session	<i>Rename a tmux session</i>
----------------	------------------------------

---

**Description**

Rename a tmux session

**Usage**

```
rename_session(target, value)
```

**Arguments**

target	A tmuxr_session.
value	String indicating the new name of the session.

**Value**

A tmuxr\_session.

---

rename_window	<i>Rename a tmux window</i>
---------------	-----------------------------

---

**Description**

Rename a tmux window

**Usage**

```
rename_window(target, value)
```

**Arguments**

target	A tmuxr_window.
value	String indicating the new name of the window.

---

resize_pane	<i>Resize a tmux pane</i>
-------------	---------------------------

---

**Description**

Resize a tmux pane

**Usage**

```
resize_pane(target, width = NULL, height = NULL)
```

**Arguments**

target	A tmuxr_pane.
width	An integer. Default: NULL.
height	An integer. Default: NULL.

---

resize_window	<i>Resize a tmux window</i>
---------------	-----------------------------

---

**Description**

Resize a tmux window

**Usage**

```
resize_window(target, width = NULL, height = NULL)
```

**Arguments**

target	A tmuxr_session or tmuxr_window.
width	An integer. Default: NULL.
height	An integer. Default: NULL.

---

select_pane	<i>Select a tmux pane</i>
-------------	---------------------------

---

**Description**

Note that selecting a pane from a non-active window does not select that window.

**Usage**

```
select_pane(target = NULL, token = NULL)
select_pane_active(target = NULL)
select_pane_last(target = NULL)
select_pane_next(target = NULL)
select_pane_previous(target = NULL)
select_pane_top(target = NULL)
select_pane_bottom(target = NULL)
select_pane_left(target = NULL)
select_pane_right(target = NULL)
select_pane_top_left(target = NULL)
select_pane_top_right(target = NULL)
select_pane_bottom_left(target = NULL)
select_pane_bottom_right(target = NULL)
select_pane_up_of(target = NULL)
select_pane_down_of(target = NULL)
select_pane_left_of(target = NULL)
select_pane_right_of(target = NULL)
```

**Arguments**

target	A <code>tmuxr_session</code> , <code>tmuxr_window</code> , or <code>tmuxr_pane</code> . If <code>NULL</code> , the currently active pane is used. Default: <code>NULL</code> .
--------	--

token            A string. Default NULL.

### Value

A tmuxr\_pane.

---

select_window	<i>Select a tmux window</i>
---------------	-----------------------------

---

### Description

Select a tmux window

### Usage

```
select_window(target = NULL, token = NULL)
```

```
select_window_active(target = NULL)
```

```
select_window_last(target = NULL)
```

```
select_window_next(target = NULL)
```

```
select_window_previous(target = NULL)
```

```
select_window_start(target = NULL)
```

```
select_window_end(target = NULL)
```

### Arguments

target            A tmuxr\_session or tmuxr\_window. If NULL, the last session is used. Default: NULL.

token            A string. Default NULL.

### Value

A tmuxr\_window.

---

send_keys	<i>Send keys to a tmux pane</i>
-----------	---------------------------------

---

## Description

Send keys to a tmux pane

## Usage

```
send_keys(target = NULL, ..., literal = FALSE, count = 1L)
```

## Arguments

target	A <code>tmuxr_session</code> , <code>tmuxr_window</code> , or <code>tmuxr_pane</code> . If <code>NULL</code> , the currently active pane is used. Default: <code>NULL</code> .
...	Strings. Keys to send.
literal	A logical. If <code>TRUE</code> , key name lookup is disabled and the keys are processed as literal UTF-8 characters. Default: <code>FALSE</code> .
count	An integer. Number of times the keys are sent. Default: <code>1L</code> .

## See Also

[capture\\_pane\(\)](#)

## Examples

```
## Not run:  
s <- new_session(shell_command = "cat")  
send_keys(s, "Speak", "Space", "friend")  
send_keys(s, "BSpace", count = 6L)  
send_keys(s, "mellon and ")  
send_keys(s, "enter", "!", literal = TRUE)  
send_keys(s, "enter", literal = FALSE)  
capture_pane(s, start = 0L, end = 1L)  
kill_session(s)  
  
## End(Not run)
```

---

send_prefix	<i>Send prefix to a tmux pane</i>
-------------	-----------------------------------

---

**Description**

Send prefix to a tmux pane

**Usage**

```
send_prefix(target = NULL, secondary = FALSE)
```

**Arguments**

target	A tmuxr_session, tmuxr_window, or tmuxr_pane. If NULL, the currently active pane is used. Default: NULL.
secondary	A logical. If TRUE, send secondary prefix. Default: FALSE.

---

set_option	<i>Set option</i>
------------	-------------------

---

**Description**

Set option

**Usage**

```
set_option(
  target = NULL,
  option,
  value = NULL,
  type = c("session", "window", "pane", "server"),
  append = FALSE,
  expand = FALSE,
  global = FALSE,
  unset = FALSE,
  override = TRUE
)
```

**Arguments**

target	A tmuxr_session, tmuxr_window, or tmuxr_pane. Default: NULL.
option	A string.
value	A string. Default: NULL.
type	A string. Type of option. Default: session.

append	A logical. Default: FALSE.
expand	A logical. Default: FALSE.
global	A logical. Default: FALSE.
unset	A logical. Default: FALSE.
override	A logical. Default: TRUE.

---

start_server	<i>Start the tmux server</i>
--------------	------------------------------

---

### Description

Start the tmux server

### Usage

```
start_server()
```

---

style	<i>Style of a tmux window or pane</i>
-------	---------------------------------------

---

### Description

Functions to get and set the layout of a tmux window or pane.

### Usage

```
style(target)
```

```
style(target) <- value
```

```
set_style(target, value)
```

### Arguments

target           A tmuxr\_window or tmuxr\_pane.

value            A named list. Style definition.

---

style_convert	<i>Format and parse style strings</i>
---------------	---------------------------------------

---

**Description**

Functions to convert a style string to a named list and back.

**Usage**

```
strfstyle(...)
```

```
strpstyle(x)
```

**Arguments**

...	Named strings and logicals or one named list. Colors and attributes.
x	A string.

**Value**

A string or named list.

**Examples**

```
## Not run:
strfstyle(fg = "red", bg = "#00ff00", blink = TRUE, align = FALSE)
strpstyle("fg=red,bg=#00ff00,blink,noalign")

## End(Not run)
```

---

swap_pane	<i>Swap two tmux windows or panes</i>
-----------	---------------------------------------

---

**Description**

Swap two tmux windows or panes

**Usage**

```
swap_pane(from = NULL, to = NULL, reverse = FALSE, select = TRUE)
```

```
swap_window(from = NULL, to = NULL, select = TRUE)
```

**Arguments**

from	A tmuxr_window or tmuxr_pane.
to	A tmuxr_window or tmuxr_pane.
reverse	A logical.
select	A logical. If FALSE, do not select the new window or pane. Default: TRUE.

---

tmux_command	<i>Execute a tmux command</i>
--------------	-------------------------------

---

**Description**

Execute a tmux command

**Usage**

```
tmux_command(command, ..., .silent = FALSE)
```

**Arguments**

command	A string.
...	Strings. Command flags.
.silent	A Logical. Default: FALSE.

**Value**

A vector of strings.

**Examples**

```
## Not run:  
s <- new_session()  
split_window(s)  
tmux_command("list-panes", "-t" , "0")  
kill_session(s)  
  
## End(Not run)
```

---

tmux_version	<i>Get tmux version</i>
--------------	-------------------------

---

**Description**

Get the version of tmux.

**Usage**

```
tmux_version(as_numeric = TRUE)
```

**Arguments**

`as_numeric` A logical. If TRUE, the version number is returned as a numeric. Default: TRUE.

**Value**

A numeric or string.

**Examples**

```
## Not run:  
tmux_version()  
tmux_version() >= 2.8  
tmux_version(as_numeric = FALSE)  
  
## End(Not run)
```

# Index

attach\_pane, 3  
attach\_session, 3  
attach\_window, 4  
  
capture\_pane, 4  
capture\_pane(), 23  
clock\_mode, 5  
  
display\_message, 6  
  
height (object\_size), 17  
height<- (object\_size), 17  
  
id, 7  
index, 7  
is\_active, 8  
is\_installed, 8  
is\_running, 9  
  
kill\_pane, 9  
kill\_server, 9  
kill\_session, 10  
kill\_window, 10  
  
layout, 11  
layout<- (layout), 11  
layout\_even (layout), 11  
layout\_even\_horizontal (layout), 11  
layout\_even\_vertical (layout), 11  
layout\_main\_horizontal (layout), 11  
layout\_main\_vertical (layout), 11  
layout\_next (layout), 11  
layout\_previous (layout), 11  
layout\_rotate (layout), 11  
layout\_tiled (layout), 11  
layout\_undo (layout), 11  
list\_panes, 12  
list\_sessions, 12  
list\_windows, 13  
  
name (object\_name), 16  
  
name<- (object\_name), 16  
new\_pane, 13  
new\_session, 14  
new\_window, 15  
  
object\_name, 16  
object\_size, 17  
  
pipe\_pane, 18  
prop, 18  
  
rename\_session, 19  
rename\_session(), 17  
rename\_window, 19  
rename\_window(), 17  
resize\_pane, 20  
resize\_pane(), 17  
resize\_window, 20  
resize\_window(), 17  
  
select\_pane, 21  
select\_pane\_active (select\_pane), 21  
select\_pane\_bottom (select\_pane), 21  
select\_pane\_bottom\_left (select\_pane),  
21  
select\_pane\_bottom\_right (select\_pane),  
21  
select\_pane\_down\_of (select\_pane), 21  
select\_pane\_last (select\_pane), 21  
select\_pane\_left (select\_pane), 21  
select\_pane\_left\_of (select\_pane), 21  
select\_pane\_next (select\_pane), 21  
select\_pane\_previous (select\_pane), 21  
select\_pane\_right (select\_pane), 21  
select\_pane\_right\_of (select\_pane), 21  
select\_pane\_top (select\_pane), 21  
select\_pane\_top\_left (select\_pane), 21  
select\_pane\_top\_right (select\_pane), 21  
select\_pane\_up\_of (select\_pane), 21  
select\_window, 22

`select_window_active` (`select_window`), 22  
`select_window_end` (`select_window`), 22  
`select_window_last` (`select_window`), 22  
`select_window_next` (`select_window`), 22  
`select_window_previous` (`select_window`),  
22  
`select_window_start` (`select_window`), 22  
`send_keys`, 23  
`send_keys()`, 5  
`send_prefix`, 24  
`set_height` (`object_size`), 17  
`set_layout` (`layout`), 11  
`set_name` (`object_name`), 16  
`set_option`, 24  
`set_style` (`style`), 25  
`set_width` (`object_size`), 17  
`split_window` (`new_pane`), 13  
`start_server`, 25  
`strfstyle` (`style_convert`), 26  
`strpstyle` (`style_convert`), 26  
`style`, 25  
`style<-` (`style`), 25  
`style_convert`, 26  
`swap_pane`, 26  
`swap_window` (`swap_pane`), 26  
  
`tmux_command`, 27  
`tmux_version`, 28  
  
`width` (`object_size`), 17  
`width<-` (`object_size`), 17